



CHARLES & KEITH GROUP RESTRICTED SUBSTANCE LIST (RSL)

Valid for both Charles & Keith and PEDRO

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| Version 1.2 | Approved Date: December 2022 | Effective Date December 2022 |
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CHARLES & KEITH GROUP SUSTAINABILITY COMMITMENT

At the CHARLES & KEITH Group, we strive to grow our global business responsibly and make clear sustainability commitments. Therefore, we work hard to design our products and source our materials in a responsible way.

We expect our business partners to ensure that materials and products supplied to the CHARLES & KEITH Group are fully compliant with local laws and regulations regarding environmental and product safety.

This Restricted Substance List (RSL) applies to all of the CHARLES & KEITH Group' s footwear, bags and other products of value. The articles include every type of supplements, including buttons, zippers and rivets. The listed testing requirements are set based on current regulations in our target countries. The RSL will be reviewed yearly and updated as necessary.

We require our business partners to avoid the intentional use of the substances listed in this RSL when supplying material and products to us. We will continually monitor and manage compliance with our standards by conducting material and product tests in independent laboratories.

Restricted Substance Limit and Test Method

* For adult products

| TEST ITEM | LIMITS | TEST METHOD |
|---|--|---|
| AZO | <ul style="list-style-type: none"> • 24 items: 20mg/kg (each) | Textile: EN ISO 14362-1/- 3:2017 Leather: ISO 17234-1:2015 ISO 17234-2:2011 |
| Disperse Dyes- Carcinogenic & Allergenic Dyes | <ul style="list-style-type: none"> • 43 items: 50mg/kg (each) | DIN 54231:2005 |
| Navy blue | <ul style="list-style-type: none"> • Prohibited | DIN 54231:2005 |
| Formaldehyde | <ul style="list-style-type: none"> • Clothing specifically marketed as suitable for people with sensitive skin or to avoid sensitive reaction with skin 30mg/kg • Others • Direct skin contact: 75mg/kg • Without direct skin contact: 150 mg/kg | Textile: EN ISO 14184-1:2011 Leather: EN ISO 17226-2:2019 with EN ISO 172261:2019 confirmation method |
| pH | <ul style="list-style-type: none"> • Leather: 3.5-7.5 • Others: 4.0-9.0 | Textile: ISO 3071:2020 Leather: EN ISO 4045:2018 |
| NPEO | <ul style="list-style-type: none"> • 100mg/kg | NPEO: All material except Leather: ISO 18254 1:2016 Leather: ISO 18218-1:2015 |
| Dimethyl Fumarate (DMFu) | <ul style="list-style-type: none"> • 0.1mg/kg | CEN ISO/TS 16186:2012 |
| Chromium VI | <ul style="list-style-type: none"> • 3 mg/kg | EN ISO 17075-1:2017 and EN ISO 17075- 2:2017 for confirmation in case the extract causes interference. Ageing test: ISO 10195:2018 Method A2 is used |
| Nickel Release | <ul style="list-style-type: none"> • 0.5µg /cm²/week (products with direct and prolong contact) • 0.2µg/cm²/week (body piercing products) | Spot test: CR 12471 EN1811:2011+A1:2015 , EN12472:2005+A1:2009 is applied for non-nickel containing coated component |
| Lead | <ul style="list-style-type: none"> • Coating: 90mg/kg • Substrate: 100mg/kg • California Proposition 65 (Refer to relevant settlements) | Acid digestion and analysis by ICP- OES/ICP-MS |

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| Cadmium | <ul style="list-style-type: none"> • 100mg/kg | Acid digestion and analysis by ICP-OES/ICP-MS |
| Mercury | <ul style="list-style-type: none"> • Coating: 10mg/kg Substrate: 100mg/kg | Acid digestion and analysis by ICP-OES/ICP-MS |
| Total Arsenic | <ul style="list-style-type: none"> • Paint & coating: Prohibited; Textile: prohibited | Acid digestion and analysis by ICP-OES/ICP-MS |
| Extractable Heavy Metal | <ul style="list-style-type: none"> • Direct skin contact/ Without direct skin contact: Sb: 30 mg/kg As: 1 mg/kg Pb: 1 mg/kg Cd: 0.1mg/kg Cr: 2 mg/kg Cr (VI):3mg/kg(leather); 0.5mg/kg(others) Co: 4 mg/kg Cu: 50 mg/kg Hg: 0.02mg/kg Ni: 4 mg/kg | All material except leather: EN 16711-2 : 2016 with EN ISO 17075-1:2017 if Cr is detected Leather: ISO 17072-1: 2011 with EN ISO 17075-1:2017 if Cr is detected. |
| Organotin Compounds | <ul style="list-style-type: none"> • Direct skin contact/ Without direct skin contact: TBT:0.5 mg/kg; T PhT: 0.5 mg/kg TPT:1 mg/kg DBT: 1 mg/kg TBT,TphT.TcyHT,TPT,TOT,TMT: 1000 mg/kg by weight of tin (sum) DOT: 1000mg/kg by weight of Tin | CEN ISO/TS 16179:2012 |
| Phthalates | <ul style="list-style-type: none"> • DIHP,DMEP,DiPP,DnPP,DnHP,B BP,DBP,DEHP,DIBP,DIDP,DNOP,DIN P: 1000 mg/kg (each or sum) • California Proposition 65 (Refer to relevant settlements) | With reference to ISO 14389:2014/ISO 16181:2011 |
| Flame Retardants (required if sample treated with Flame retardants) | <ul style="list-style-type: none"> • PBB, TRIS, TEPA, BDBPP, DecaBDE , PentaBDE, OctaBDE, TetraBDE, HexaBDE, HeptaBDE, HexaBB, TCEP,HBCDD,PCB,PCN: Prohibited • California Proposition 65 (Refer to relevant settlements) | With reference to EN ISO 17881-1: 2016 and EN ISO 17881-2: 2016; Solvent extraction and analysis by GC-MS/LC-MS |
| PFOS/PFOA (required if sample declared with stain and water repellent finishing) | <ul style="list-style-type: none"> • PFOS: 1 µg/m² (textile or other coated material) • PFOA (Effective date: 2020.7.4) • < 25 ppb (PFOA and its salts) or <1000 ppb (PFOA-related substances) | Leather: EN 23702-1:2018 Others: CEN/TS 15968:2010 or In house method by solvent extraction, analysis was performed by GC MS and LC MS. |

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| PAH | <ul style="list-style-type: none"> • 1 mg/kg (each): Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrysen (CHR) Benzo[b]fluoranthene (BbF) Benzo[j]fluoranthene (BjF) Benzo[k]fluoranthene (BkF) Dibenzo[a,h]anthracene (DBA) | AFPS GS 2019 |
| PCP/TeCP/OPP | <ul style="list-style-type: none"> • PCP:0.5mg/kg • TeCP:0.5mg/kg • OPP: 1mg/kg | KOH extraction, derivatization and analysis § 64 LFGB B 82.02-08 or ISO 17070:2015 |
| Chlorinated benzene chlorinated toluene and chlorinated naphthalene | <ul style="list-style-type: none"> • 1mg/kg | EN 17137 : 2018 |
| MCCP | <ul style="list-style-type: none"> • 1000mg/kg | With reference to ISO 18219:2015 |
| SCCP | <ul style="list-style-type: none"> • 1000mg/kg | ISO 18219: 2015 |
| Pesticide | <ul style="list-style-type: none"> • Prohibited | With reference to EPA Method 8081 or 8151A, analysis was performed by GC-MS, GC-ECD, GC-NPD, HPLC-DAD-MSD |
| Monomer in PVC (VCM) | <ul style="list-style-type: none"> • 1mg/kg | EN ISO 6401:2008 |
| Heavy metal in packaging materials/TPCH | <ul style="list-style-type: none"> • Sum Pb, Cd, Hg, Cr(VI) : 100mg/kg • Phthalate: 100mg/kg (TPCH) • PFAS (Banned) (TPCH) | Acid digestion and analysis by ICP- OES/ICP-MS/AAS / GC-MS / LC-MS |
| DMFa | <ul style="list-style-type: none"> •1000mg/kg | DIN CEN ISO/TS16189: 2013 |
| Asbestos (Recommended test for insulated material) | <ul style="list-style-type: none"> • Prohibited | Microscopic examination |
| VOC | <ul style="list-style-type: none"> • Benzene: 5 mg/kg • Other:1000 mg/kg (sum) See Restricted substances list for detail | GC/MS headspace 45 minutes at 120 degrees C |
| N-Nitrosamines (GB Market) | <ul style="list-style-type: none"> • Prohibited : 0.5mg/kg (Rubber parts) | GB/T 24153:2009 |
| Other volatile Substances (GB Market) | <ul style="list-style-type: none"> • PVC Artificial leather: 20g/m2 | GB 21550 Clause 5.5 |
| CMR (33 items) | <ul style="list-style-type: none"> • See Restricted substances list for detail. | |

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| <p>C9-C14 PFCAs, their salts and related substances (EU)</p> | <ul style="list-style-type: none"> • Sum of C9 - C14 PFCAs and their salts: 25 ppb • Sum of C9 - C14 PFCA-related substances: 260 ppb <p>effective date: Feb 25, 2023 (Textile: Jul 4,2023)</p> | <p>In house method by solvent extraction, analysis was performed by GC MS or LC MS</p> |
| <p>perfluoroalkyl and polyfluoroalkyl substances (PFAS) (US)</p> | <ul style="list-style-type: none"> • <100ppm in total organic fluorine. <p>Effective date: 2023/7/1</p> <ul style="list-style-type: none"> •PFAS (Fluorinated organic chemicals containing at least one fully fluorinated carbon atom) (Banned) <p>Effective date: 2024/1/1</p> | <p>In house method by solvent extraction, analysis was performed by GC MS or LC MS</p> |

Remark :

For some restricted substances that have special legal requirements in some countries, its corresponding test method and limits refer to the legal requirements of the destination countries.

* For children products (≤ 13 years)

| TEST ITEM | LIMITS | TEST METHOD |
|---|--|---|
| AZO | <ul style="list-style-type: none"> • 24 items: 20mg/kg (each) | Textile: EN ISO 14362-1/-3:2017 Leather: ISO 17234-1:2015 ISO 17234-2:2011 |
| Disperse Dyes- Carcinogenic & Allergenic Dyes | <ul style="list-style-type: none"> • 43 items: 50mg/kg | DIN 54231:2005 |
| Navy blue | <ul style="list-style-type: none"> • Prohibited | DIN 54231:2005 |
| Formaldehyde | <ul style="list-style-type: none"> • Baby's products: Prohibited (16 mg/kg or A-A0:0.05) | Textile: JIS L 1041:2011 method A (baby wear) Leather: EN ISO 17226-2:2019 with EN ISO 172261:2019 confirmation method |
| pH | <ul style="list-style-type: none"> • Leather: 3.5-7.5 • Others: 4.0-9.0 | Textile: ISO 3071:2020 Leather: EN ISO 4045:2018 |
| NP/NPEO | <ul style="list-style-type: none"> • 100mg/kg (sum) | NP: Solvent extraction, analysis by GC-MS/ LC- MS NPEO: All material except Leather: ISO18254-1:2016 Leather: ISO 18218-1:2015 |
| Dimethyl Fumarate (DMFu) | <ul style="list-style-type: none"> • 0.1mg/kg | CEN ISO/TS 16186:2012 |
| Chromium VI | <ul style="list-style-type: none"> • 3 mg/kg | EN ISO 17075-1:2017 and EN ISO 17075-2:2017 for confirmation in case the extract causes interference. Ageing test: ISO 10195:2018 Method A2 is used. |
| Nickel Release | <ul style="list-style-type: none"> • 0.5μg/cm²/week (products with direct and prolong contact) • 0.2μg/cm²/week (body piercing products) | Spot test: CR 12471 EN 1811:2011+A1:2015 EN 12472:2005 +A1:2009 is applied for non-nickel containing coated component |
| Lead | <ul style="list-style-type: none"> • 90mg/kg | Acid digestion and analysis by ICP-OES/ICP-MS |
| Cadmium | <ul style="list-style-type: none"> • 40mg/kg | Acid digestion and analysis by ICP-OES/ICP-MS |
| Mercury | <ul style="list-style-type: none"> • Coating: 10mg/kg Substrate: 100mg/kg | Acid digestion and analysis by ICP-OES/ICP-MS |
| Total Arsenic | <ul style="list-style-type: none"> • Prohibited | Acid digestion and analysis by ICP-OES/ICP-MS |

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|---|--|---|
| <p>Extractable Heavy Metal</p> | <ul style="list-style-type: none"> • Direct skin contact/ Without direct skin contact: Sb: 30 mg/kg As: 0.2 mg/kg Ba: 1000mg/kg Se: 500mg/kg Pb: 0.2 mg/kg Cd: 0.1mg/kg Cr: 1 mg/kg Cr(VI):3mg/kg(leather); 0.5mg/kg(others) Co:1 mg/kg Cu: 25 mg/kg Hg: 0.02mg/kg Ni: 1 mg/kg | <p>EN 71-3:2019 +A1:2021 with EN ISO 17075-1:2017 if Cr is detected</p> |
| <p>• EN 71-3: 2019+A1:2021 (See Restricted substances list for detail)</p> | | |
| <p>Organotin Compounds</p> | <ul style="list-style-type: none"> • TBT:0.5 mg/kg; TPhT: 0.5 mg/kg TPT:0.5 mg/kg DBT: 1 mg/kg TBT,TphT.TcyHT,TPT,TOT,TMT: 1000kg by weight of tin (sum) DOT: 1000mg/kg by weight of tin | <p>CEN ISO/TS 16179:2012</p> |
| <p>Phthalates</p> | <ul style="list-style-type: none"> • DIHP,DMEP,DiPP,DnPP,DnHP, BBP,DBP,DEHP,DIBP,DIDP,DNOP ,DINP,DPENP,DHEXP,DCHP 1000kg (each or sum) • DEP,DMP for China-Taiwan market (voluntary) • mBP, DBP, BBP, DEHP, DINP, DIBP, DnHP, DEP, DNOP, DIDP, DMEP: 100 mg/kg each for US states CHCC : Washington, Fremont, Maine, Oregon •California Proposition 65 (Refer to relevant settlements) | <p>With reference to ISO 14389:2014/ISO 16181:2011</p> |
| <p>Flame Retardants (required if sample treated with Flame retardants)</p> | <ul style="list-style-type: none"> • PBB,TRIS,TEPA, BDBPP, DecaBDE , PentaBDE, OctaBDE, TetraBDE, HexaBDE, HeptaBDE, HexaBB, TCEP,HBCDD,PCB,PCN: prohibited • TBBPA,TDCPP: 1000mg/kg | <p>With reference to ISO 17881-1: 2016 and ISO 17881-2: 2016; Solvent extraction and analysis by GC-MS/LC-MS</p> |
| <p>PFOS/PFOA (required if sample declared with stain and water repellent finishing)</p> | <ul style="list-style-type: none"> • PFOS: 1 µg/m² (textile or other coated material) • PFOA < 25 ppb (PFOA and its salts) or < 1000 ppb (PFOA-related substances) | <p>Leather: EN 23702-1:2018 Others: CEN/TS 15968 or In house method by solvent extraction, analysis was performed by GC MS and LC MS.</p> |
| <p>PAH</p> | <ul style="list-style-type: none"> • 0.5mg/kg (each) Benzo[a]pyrene (BaP) Benzo[e]pyrene (BeP) Benzo[a]anthracene (BaA) Chrysen (CHR) | <p>AFPS GS 2019</p> |

| | | |
|---|--|---|
| | <ul style="list-style-type: none"> Benzo[b]fluoranthene (BbF) Benzo[j]fluoranthene (BjF) Benzo[k]fluoranthene (BkF) Dibenzo[a,h]anthracene (DBA) • Taiwan: Children product: 16 items (see restricted substances list): 10mg/kg (sum) | |
| PCP/TeCP/OPP | <ul style="list-style-type: none"> • PCP: 0.05mg/kg TeCP:0.05mg/kg OPP:0.5mg/kg | KOH extraction, derivatization and analysis § 64 LFGB B 82.02-08 or ISO 17070:2015 |
| Chlorinated benzene chlorinated toluene and chlorinated naphthalene | <ul style="list-style-type: none"> • 1mg/kg | EN 17137 : 2018 |
| MCCP | <ul style="list-style-type: none"> • 1000mg/kg | With reference to ISO 18219:2015 |
| SCCP | <ul style="list-style-type: none"> • 1000mg/kg | ISO 18219: 2015 |
| Pesticide | <ul style="list-style-type: none"> • Prohibited | With reference to EPA Method 8081 or 8151A, analysis was performed by GC-MS, GC-ECD, GC-NPD, HPLC-DAD-MSD |
| Monomer in PVC (VCM) | <ul style="list-style-type: none"> • 1mg/kg | EN ISO 6401:2008 |
| Heavy metal in packaging materials/TPCH | <ul style="list-style-type: none"> • Sum Pb, Cd, Hg, Cr(VI) : 100mg/kg • Phthalate: 100mg/kg (TPCH) • PFAS (Banned) (TPCH) | Acid digestion and analysis by ICP-OES/ICP-MS/AAS |
| DMFa | <ul style="list-style-type: none"> • 1000mg/kg | DIN CEN ISO/TS 16189:2013 |
| Formamide | <ul style="list-style-type: none"> • 200mg/kg (Toy, puzzle and mats) | Solvent extraction and analysis by GC-MS |
| Asbestos (Recommended test for insulated material) | <ul style="list-style-type: none"> • Prohibited | Microscopic examination |
| VOC | <ul style="list-style-type: none"> • Benzene: 5 mg/kg • Other:1000 mg/kg (sum) • See Restricted substances list for detail | GC/MS headspace 45 minutes at 120 degrees C |
| N-Nitrosamines (GB Market) | <ul style="list-style-type: none"> • Prohibited : 0.5mg/kg (Rubber parts) | GB/T 24153:2009 |
| Other volatile substances (GB Market) | <ul style="list-style-type: none"> • PVC Artificial leather: 20g/m2 | GB 21550 Clause 5.5 |
| CMR (33 items) | <ul style="list-style-type: none"> • See Restricted substances list for detail. | |

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| Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCAs), their salts and related substances. | <ul style="list-style-type: none"> • Sum of C9 - C14 PFCAs and their salts: 25 ppb • Sum of C9 - C14 PFCA-related substances: 260 ppb effective date: Feb 25, 2023 (Textile: Jul 4,2023) | In house method by solvent extraction, analysis was performed by GC MS or LC MS |
| perfluoroalkyl and polyfluoroalkyl substances (PFAS) | <ul style="list-style-type: none"> • <100ppm in total organic fluorine. Effective date: 2023/7/1 <ul style="list-style-type: none"> • PFAS (Fluorinated organic chemicals containing at least one fully fluorinated carbon atom) (Banned) Effective date: 2024/1/1 | In house method by solvent extraction, analysis was performed by GC MS or LC MS |

Remark :

For some restricted substances that have special legal requirements in some countries, its corresponding test method and limits refer to the legal requirements of the destination countries.

Chemical Abstracts Service (CAS) No. List

| AZO Dyes | | | |
|-----------------|---|---|------------|
| No. | Test Item | CAS No | |
| 1 | 4-Aminobiphenyl | 92-67-1 | |
| 2 | Benzidine | 92-87-5 | |
| 3 | 4-Chloro-o-toluidine | 95-69-2 | |
| 4 | 2-Naphthylamine | 91-59-8 | |
| 5 | o-Aminoazotoluene | 97-56-3 | |
| 6 | 5-nitro-o-toluidine / 2-Amino-4-nitrotoluene | 99-55-8 | |
| 7 | 4-Chloroaniline | 106-47-8 | |
| 8 | 4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole | 615-05-4 | |
| 9 | 4,4'-Diaminodiphenylmethane | 101-77-9 | |
| 10 | 3,3'-Dichlorobenzidine | 91-94-1 | |
| 11 | 3,3'-Dimethoxybenzidine | 119-90-4 | |
| 12 | 3,3'-Dimethylbenzidine | 119-93-7 | |
| 13 | 4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | |
| 14 | p-Cresidine | 120-71-8 | |
| 15 | 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | |
| 16 | 4,4'-Oxydianiline | 101-80-4 | |
| 17 | 4,4'-Thiodianiline | 139-65-1 | |
| 18 | o-Toluidine | 95-53-4 | |
| 19 | 4-methyl-m-phenylenediamine / 2,4-Toluylendiamine | 95-80-7 | |
| 20 | 2,4,5-Trimethylaniline | 137-17-7 | |
| 21 | O-Anisidine | 90-04-0 | |
| 22 | 4-aminoazobenzene | 60-09-3 | |
| 23 | 2,6 – Xylidine | 87-62-7 | |
| 24 | 2,4 – Xylidine | 95-68-1 | |
| 25 | CMR | 4-chloro-o-toluidinium chloride | 3165-93-3 |
| 26 | | 2-Naphthylammoniumacetate | 553-00-4 |
| 27 | | 4-methoxy-m-phenylene diammonium sulphate; 2,4- diaminoanisole sulphate | 39156-41-7 |
| 28 | | 2,4,5-trimethylaniline hydrochloride | 21436-97-5 |

| Disperse Dyes- Carcinogenic & Allergenic Dyes | | |
|--|---|-------------|
| No. | Test Item | CAS No |
| 1 | C.I. Disperse Blue 1 | 2475-45-8 |
| 2 | C.I. Disperse Blue 3 | 2475-46-9 |
| 3 | C.I. Disperse Blue 7 | 3179-90-6 |
| 4 | C.I. Disperse Blue 26 | 3860-63-7 |
| 5 | C.I. Disperse Blue 35A | 56524-77-7 |
| 6 | C.I. Disperse Blue 35B | 56524-76-6 |
| 7 | C.I. Disperse Blue 102 | 12222-97-8 |
| 8 | C.I. Disperse Blue 106 | 12223-01-7 |
| 9 | C.I. Disperse Blue 124 | 61951-51-7 |
| 10 | C.I. Disperse Brown 1 | 23355-64-8 |
| 11 | C.I. Disperse Orange 1 | 2581-69-3 |
| 12 | C.I. Disperse Orange 3 | 730-40-5 |
| 13 | C.I. Disperse Orange 11 | 82-28-0 |
| 14 | C.I. Disperse Orange 37/76/59 | 12223-33-5 |
| 15 | | 13301-61-6 |
| 16 | | 51811-42-8 |
| 17 | C.I. Disperse Orange 149 | 85136-74-9 |
| 18 | C.I. Disperse Red 1 | 2872-52-8 |
| 19 | C.I. Disperse Red 11 | 2872-48-2 |
| 20 | C.I. Disperse Red 17 | 3179-89-3 |
| 21 | C.I. Disperse Red 151 | 61968-47-6 |
| 22 | C.I. Disperse Yellow 1 | 119-15-3 |
| 23 | C.I. Disperse Yellow 3 | 2832-40-8 |
| 24 | C.I. Disperse Yellow 9 | 6373-73-5 |
| 25 | C.I. Disperse Yellow 23 | 6250-23-3 |
| 26 | C.I. Disperse Yellow 39 | 12236-29-2 |
| 27 | C.I. Disperse Yellow 49 | 54824-37-2 |
| 28 | C.I. Disperse Yellow 56 | 54077-16-6 |
| 29 | C.I. Acid Red 26 | 3761-53-3 |
| 30 | C.I. Basic Red 9 | 569-61-9 |
| 31 | C.I. Basic Green 4 | 569-64-2 / |
| 32 | | 2437-29-8 / |
| 33 | | 10309-95-2 |
| 34 | C.I. Basic Violet 3 | 548-62-9 |
| 35 | C.I. Basic Violet 14 | 632-99-5 |
| 36 | C.I. Basic Blue 26 | 2580-56-5 |
| 37 | C.I. Direct Black 38 | 1937-37-7 |
| 38 | C.I. Direct Blue 6 | 2602-46-2 |
| 39 | C.I. Direct Red 28 | 573-58-0 |
| 40 | C.I. Direct Brown 95 | 16071-86-6 |
| 41 | 4-Dimethylaminoazobenzene (Solvent Yellow 2) | 60-11-7 |
| 42 | C.I. Solvent Blue 4 | 6786-83-0 |
| 43 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol | 561-41-1 |

| Navy blue | | |
|------------------|-----------------------------------|---------------|
| No. | Test Item | CAS No. |
| 1 | Component 1: C39H23ClCrN7O12S.2Na | 118685-33-9 |
| 2 | Component 2: C46H30CrN10O20S2.3Na | Not allocated |

| Phthalates | | |
|-------------------|--|----------------------------|
| No. | Test Item | CAS No. |
| 1 | Di-n-octyl phthalate (DNOP) | 117-84-0 |
| 2 | Diisodecyl phthalate (DIDP) | 26761-40-0 / 68515-49-1 |
| 3 | Diiso nonyl phthalate (DINP) | 28553-12-0 / 68515-48-0 |
| 4 | Butyl benzyl phthalate (BBP) | 85-68-7 |
| 5 | Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7 |
| 6 | Dibutyl phthalate (DBP) | 84-74-2 |
| 7 | Diiso butyl phthalate (DIBP) | 84-69-5 |
| 8 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP/ DIHeP) | 71888-89-6 |
| 9 | Bis-(methoxyethyl)-phthalate (DMEP) | 117-82-8 |
| 10 | Diisopentylphthalate (DiPP) | 605-50-5 |
| 11 | Di-n-hexyl phthalate (DHEXP /DnHP) | 84-75-3 |
| 12 | Dipentyl phthalate (DnPP/DPENP) | 131-18-0 |
| 13 | Dicyclohexyl phthalate (DCHP) | 84-61-7 |
| 14 | Diethyl phthalate (DEP) | 84-66-2 |
| 15 | Dimethyl-o-phthalate (DMP) | 131-11-3 |
| 16 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNuP) | 68515-42-4 |
| 17 | N-pentyl-isopentylphthalate (NPiPP) | 776297-69-9 |
| 18 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear | 84777-06-0 |
| 19 | 1,2-Benzenedicarboxylic acid, dihexylester, branched and linear(DHP) | 68515-50-4 |
| 20 | 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di- C6-10-alkyl esters | 68515-51-5 |
| 21 | | 68484-93-1 |
| 22 | Diisohexyl phthalate | 71850-09-4 |
| 23 | Dipropyl phthalate | 131-16-8 |
| 24 | Diisooctyl phthalate | 27554-26-3 |
| *25 | Mono-n-butylphthalate | 131-70-4 |

Remark: No. 1-24 Same as AFIRM phthalate list * No. 25 for US CHCC

| PAHs | | |
|-------------|-------------------------|----------|
| No. | Test Item | CAS No. |
| 1 | Benzo[a]pyrene | 50-32-8 |
| 2 | Benzo[e]pyrene | 192-97-2 |
| 3 | Benzo[a]anthracene | 56-55-3 |
| 4 | Chrysene | 218-01-9 |
| 5 | Benzo[b]fluoranthene | 205-99-2 |
| 6 | Benzo[j]fluoranthene | 205-82-3 |
| 7 | Benzo[k]fluoranthene | 207-08-9 |
| 8 | Dibenz[a,h]anthracene | 53-70-3 |
| 9 | Acenaphthene | 83-32-9 |
| 10 | Acenaphthylene | 208-96-8 |
| 11 | Fluorene | 86-73-7 |
| 12 | Phenanthrene | 85-01-8 |
| 13 | Anthracene | 120-12-7 |
| 14 | Fluoranthene | 206-44-0 |
| 15 | Pyrene | 129-00-0 |
| 16 | Indeno[1,2,3-cd] pyrene | 193-39-5 |
| 17 | Naphthalene | 91-20-3 |

Remark: No. 9-17 for Taiwan market

| N-Nitrosamine | | |
|----------------------|---|----------|
| No. | Test Item | CAS No. |
| 1 | N-nitrosodimethylamine (NDMA) | 62-75-9 |
| 2 | N- nitrosodiethylamine (NDEA) | 55-18-5 |
| 3 | N-nitrosodipropylamine (NDPA) | 621-64-7 |
| 4 | N-nitrosodibutylamine(NDBA) | 924-16-3 |
| 5 | N-nitrosopiperidine(NPIP) | 100-75-4 |
| 6 | N-nitrosopyrrolidine(NPYP) | 930-55-2 |
| 7 | N-nitrosomorpholine(NMOR) | 59-89-2 |
| 8 | N-nitroso-N-methyl-N-phenylamine (NMPPhA) | 614-00-6 |
| 9 | N-nitroso-N-ethyl-N-phenylamine(NEPhA) | 612-64-6 |

| Flame Retardants | | |
|-------------------------|---|--|
| No. | Test Item | CAS No. |
| 1 | Polybromobiphenyls (PBB) | 59536-65-1 |
| 2 | Tris(2,3, -dibromopropyl) phosphate (TRIS) | 126-72-7 |
| 3 | Tris(1-aziridinyl) phosphine oxide (TEPA) | 545-55-1 |
| 4 | Bis(2,3-dibromopropyl) phosphate (BDBPP) | 5412-25-9 |
| 5 | Pentabromodiphenyl ether (PentaBDE) | 32534-81-9 |
| 6 | Octabromodiphenyl ether (OctaBDE) | 32536-52-0 |
| 7 | Tetrabromodiphenyl Ether (TetraBDE) | 40088-47-9 |
| 8 | Hexabromodiphenyl Ether (HexaBDE) | 36483-60-0 |
| 9 | Heptabromodiphenyl Ether (HeptaBDE) | 446255-22-7 |
| 10 | Decabromodiphenyl Ether (DecaBDE) | 1163-19-5 |
| 11 | Hexabromocyclododecane (HBCDD) | 25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8 |
| 12 | Tetrabromobisphenol A (TBBPA) | 79-94-7 |
| 13 | Tris(1,3-dichloro-2-propyl) Phosphate (TDCPP) | 13674-87-8 |
| 14 | Tris(2-chloroethyl) Phosphate (TCEP) | 115-96-8 |
| 15 | Hexabromobiphenyl (HexBB) | 36355-01-8 |
| 16 | PCN | / |
| 17 | PCB | / |

| Organotin | | |
|------------------|--------------------------|---------|
| No. | Test Item | CAS No. |
| 1 | Tributyltin (TBT) | Various |
| 2 | Dibutyltin (DBT) | Various |
| 3 | Triphenyltin (TPhT) | Various |
| 4 | Tricyclohexyltin (TCyHT) | Various |
| 5 | Tripropyltin (TPT) | Various |
| 6 | Trioctyltin (TOT) | Various |
| 7 | Trimethyltin (TMT) | Various |
| 8 | Diocyltin (DOT) | Various |
| 9 | Monobutyltin (MBT) | Various |

| Extractable Heavy Metals | | |
|---------------------------------|---------------------|------------|
| No. | Test Item | CAS No. |
| 1 | Antimony (Sb) | 7440-36-0 |
| 2 | Arsenic (As) | 7440-38-2 |
| 3 | Barium (Ba) | 7440-39-3 |
| 4 | Selenium (Se) | 7782-49-2 |
| 5 | Lead (Pb) | 7439-92-1 |
| 6 | Cadmium (Cd) | 7440-43-9 |
| 7 | Chromium (Cr) | 7440-47-3 |
| 8 | Chromium VI (Cr VI) | 18540-29-9 |
| 9 | Cobalt (Co) | 7440-48-4 |
| 10 | Copper (Cu) | 7440-50-8 |
| 11 | Mercury (Hg) | 7439-97-6 |
| 12 | Nickel (Ni) | 7440-02-0 |

| EN 71-3 Extractable Heavy Metals | | | |
|---|-----------------------------------|------------|---------------------|
| No. | Test Item | CAS No. | Requirement (mg/kg) |
| 1 | Soluble Aluminium (Al) | 7429-90-5 | 28130 |
| 2 | Soluble Antimony (Sb) | 7440-36-0 | 560 |
| 3 | Soluble Arsenic (As) | 7440-38-2 | 47 |
| 4 | Soluble Barium (Ba) | 7440-39-3 | 18750 |
| 5 | Soluble Boron (B) | 7440-42-8 | 15000 |
| 6 | Soluble Cadmium (Cd) | 7440-43-9 | 17 |
| 7 | Soluble Chromium (III) (Cr (III)) | 16065-83-1 | 460 |
| 8 | Soluble Chromium (VI) (Cr (VI)) | 18540-29-9 | 0.053 |
| 9 | Soluble Cobalt (Co) | 7440-48-4 | 130 |
| 10 | Soluble Copper (Cu) | 7440-50-8 | 7700 |
| 11 | Soluble Lead (Pb) | 7439-92-1 | 23 |
| 12 | Soluble Manganese (Mn) | 7439-96-5 | 15000 |
| 13 | Soluble Mercury (Hg) | 7439-97-6 | 94 |
| 14 | Soluble Nickel (Ni) | 7440-02-0 | 930 |
| 15 | Soluble Selenium (Se) | 7782-49-2 | 460 |
| 16 | Soluble Strontium (Sr) | 7440-24-6 | 56000 |
| 17 | Soluble Tin (Sn) | 7440-31-5 | 180000 |
| 18 | Soluble Organic Tin [^] | Various | 12 |
| 19 | Soluble Zinc (Zn) | 7440-66-6 | 46000 |

| Pesticides | | |
|-------------------|----------------------------------|-------------------|
| No. | Test Item | CAS No. |
| 1 | 2,4,5-T | 93-76-5 |
| 2 | 2,4 D | 94-75-7 |
| 3 | Azinophosmethyl | 86-50-0 |
| 4 | Azinophosethyl | 2642-71-9 |
| 5 | Aldrin | 309-00-2 |
| 6 | Bromophos-ethyl | 4824-78-6 |
| 7 | Captafol | 2425-06-1 |
| 8 | Carbaryl | 63-25-2 |
| 9 | Chlorodane | 57-74-9 |
| 10 | Chlordimeform | 6164-98-3 |
| 11 | Chlorfenvinphos | 470-90-6 |
| 12 | Coumaphos | 56-72-4 |
| 13 | Cyfluthrin | 68359-37-5 |
| 14 | Cyhalothrin | 91465-08-6 |
| 15 | Cypermethrin | 52315-07-8 |
| 16 | Deltamethrin | 52918-63-5 |
| 17 | DDD | 53-19-0/72-54-8 |
| 18 | DDE | 3424-82-6/72-55-9 |
| 19 | DDT | 50-29-3/789-02-6 |
| 20 | Diazinon | 333-41-5 |
| 21 | Dichlorprop | 120-36-5 |
| 22 | Dicrotophos | 141-66-2 |
| 23 | Dieldrin | 60-57-1 |
| 24 | Dimethoate | 60-51-5 |
| 25 | Dinoseb and salts | 88-85-7 |
| 26 | Endosulfan, α - | 959-98-8 |
| 27 | Endosulfan, β | 33213-65-9 |
| 28 | Endrine | 72-20-8 |
| 29 | Esfenvalerate | 66230-04-4 |
| 30 | Fenvalerate | 51630-58-1 |
| 31 | Heptachlor | 76-44-8 |
| 32 | Heptachloroepoxide | 1024-57-3 |
| 33 | Hexachlorobenzene | 118-74-1 |
| 34 | Hexachlorcyclohexane, α - | 319-84-6 |
| 35 | Hexachlorcyclohexane, β - | 319-85-7 |
| 36 | Hexachlorcyclohexane, δ - | 319-86-8 |
| 37 | Lindane | 58-89-9 |
| 38 | Malathion | 121-75-5 |

| | | |
|----|--|------------|
| 39 | MCPA | 94-74-6 |
| 40 | MCPB | 94-81-5 |
| 41 | Mecoprop | 93-65-2 |
| 42 | Metamidophos | 10265-92-6 |
| 43 | Methoxychlor | 72-43-5 |
| 44 | Mirex | 2385-85-5 |
| 45 | Monocrotophos | 6923-22-4 |
| 46 | Parathion | 56-38-2 |
| 47 | Phosdrin/Mevinphos | 7786-34-7 |
| 48 | Propethamphos | 31218-83-4 |
| 49 | Profenophos | 41198-08-7 |
| 50 | Quinalphos | 13593-03-8 |
| 51 | Toxaphene | 8001-35-2 |
| 52 | Trifluralin | 1582-09-8 |
| 53 | 4,6-dichloro-7-(2,4,5-trichlorophenoxy)-2-trifluoromethyl benzimidazole (DTTB) | 63405-99-2 |

| Chlorinated Benzenes, Toluene and Naphthalene | | |
|--|-----------------------------|---------|
| No. | Test Item | CAS No. |
| 1 | Chlorotoluene | Various |
| 2 | Dichlorotoluene | Various |
| 3 | Trichlorotoluene | Various |
| 4 | Tetrachlorotoluene | Various |
| 5 | Pentachlorotoluene | Various |
| 6 | Chlorobenzene | Various |
| 7 | Dichlorobenzene | Various |
| 8 | Trichlorobenzene | Various |
| 9 | Tetrachlorobenzene | Various |
| 10 | Pentachlorobenzene | Various |
| 11 | Hexachlorobenzene | Various |
| 12 | Polychlorinated Naphthalene | Various |

| PFCs | | |
|------|--------------------------|-----------|
| No. | Test Item | CAS No. |
| 1 | PFOS [^] | 1763-23-1 |
| 2 | PFOA | 335-67-1 |
| 3 | PFOA-related substances+ | Various |

[^] PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluorooctanesulfonic acid, Perfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamide, N-Ethylperfluorooctane sulfonamide, N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

| PFCAs* & PFAS | | |
|---------------|---|---------|
| No. | Test Item | CAS No. |
| 1 | C9-C14 PFCAs including their salts, and any combinations thereof | Various |
| 2 | C9-C14 PFCAs -related substances, including their salts and any combinations thereof | Various |
| 3 | perfluoroalkyl and polyfluoroalkyl substances (PFAS) [^] | Various |

*1. C9-C14 PFCAs including their salts: Linear and branched perfluorocarboxylic acids of the formula $C_nF_{2n+1}-C(=O)OH$ where $n = 8, 9, 10, 11, 12, \text{ or } 13$;

2. C9-C14 PFCA-related substance, including their salts:

- Any C9-C14 PFCA-related substance including their salts having a perfluoro group with the formula $C_nF_{2n+1}-$ directly attached to another carbon atom, where $n = 8, 9, 10, 11, 12, \text{ or } 13$

- Any C9-C14 PFCA-related substance including their salts having a perfluoro group with the formula $C_nF_{2n+1}-$ that is not directly attached to another carbon atom, where $n = 9, 10, 11, 12, 13 \text{ or } 14$ as one of the structural elements

- The following substances are excluded

$C_nF_{2n+1}-X$, where $X = F, Cl, \text{ or } Br$ where $n = 9, 10, 11, 12, 13 \text{ or } 14$, including any combinations thereof,

$C_nF_{2n+1}-C(=O)OX'$ where $n > 13$ and X' =any group, including salts;

There are several derogations on the requirement

[^] The definition of PFAS is different in US different states.

| VOCs | | |
|-------------|--------------------------------|-----------|
| No. | Test Item | CAS No. |
| 1 | Benzene | 71-43-2 |
| 2 | Carbon Disulfide | 75-15-0 |
| 3 | Carbon Tetrachloride | 56-23-5 |
| 4 | Chloroform | 67-66-3 |
| 5 | Cyclohexanone | 108-94-1 |
| 6 | 1,2-Dichloroethane | 107-06-2 |
| 7 | 1,1-Dichloroethylene | 75-35-4 |
| 8 | Ethylbenzene | 100-41-4 |
| 9 | Pentachloroethane | 76-01-7 |
| 10 | 1,1,1,2- Tetrachloroethane | 630-20-6 |
| 11 | 1,1,2,2- Tetrachloroethane | 79-34-5 |
| 12 | Tetrachloroethylene (PERC) | 127-18-4 |
| 13 | Toluene | 108-88-3 |
| 14 | 1,1,1- Trichloroethane | 71-55-6 |
| 15 | 1,1,2- Trichloroethane | 79-00-5 |
| 16 | Trichloroethylene | 79-01-6 |
| 17 | Xylenes (meta-, ortho-, para-) | 1330-20-7 |
| 18 | | 108-38-3 |
| 19 | | 95-47-6 |
| 20 | | 106-42-3 |

| Others | | |
|---------------|--------------|------------|
| No. | Test Item | CAS No. |
| 1 | Formaldehyde | 50-00-0 |
| 2 | SCCP | 85535-84-8 |
| 3 | DMFu | 624-49-7 |
| 4 | DMFa | 68-12-2 |
| 5 | NP | Various |
| 6 | NPEO | Various |
| 7 | PCP | 87-86-5 |
| 8 | TeCP | Various |
| 9 | OPP | 90-43-7 |

| EU REACH- CMR | | | | |
|---------------|---|------------|---|-----------------|
| No. | Limited substances | Cas No. | Limit | Reporting limit |
| 1 | Benzene | 71-43-2 | 5 mg/kg | 1mg/kg |
| 2 | Benz[a]anthracene | 56-55-3 | 1 mg/kg | 0.1mg/kg |
| 3 | Benz[e]acephenanthrylene | 205-99-2 | 1 mg/kg | 0.1mg/kg |
| 4 | Benzo[a]pyrene; benzo[def]chrysene | 50-32-8 | 1 mg/kg | 0.1mg/kg |
| 5 | Benzo[e]pyrene | 192-97-2 | 1 mg/kg | 0.1mg/kg |
| 6 | Benzo[j]fluoranthene | 205-82-3 | 1 mg/kg | 0.1mg/kg |
| 7 | Benzo[k]fluoranthene | 207-08-9 | 1 mg/kg | 0.1mg/kg |
| 8 | Chrysene | 218-01-9 | 1 mg/kg | 0.1mg/kg |
| 9 | Dibenz[a,h]anthracene | 53-70-3 | 1 mg/kg | 0.1mg/kg |
| 10 | α , α , α ,4-tetrachlorotoluene; p-chlorobenzotrichloride | 5216-25-1 | 1 mg/kg | 0.1mg/kg |
| 11 | α , α , α -trichlorotoluene; benzotrichloride | 98-07-7 | 1 mg/kg | 0.1mg/kg |
| 12 | α -chlorotoluene; benzyl chloride | 100-44-7 | 1 mg/kg | 0.1mg/kg |
| 13 | Formaldehyde | 50-00-0 | 75 mg/kg | 20mg/kg |
| 14 | 1,2-benzenedicarboxylic acid; di-C 6- 8-branched alkylesters, C 7-rich | 71888-89-6 | 1 000 mg/kg (individually or in combination with other phthalates in this entry or in other entries of Annex XVII that are classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 in any of the hazard classes carcinogenicity, germ cell mutagenicity or reproductive toxicity, category 1A or1B | 50mg/kg |
| 15 | Bis(2-methoxyethyl) phthalate | 117-82-8 | | 50mg/kg |
| 16 | Diisopentylphthalate | 605-50-5 | | 50mg/kg |
| 17 | Di-n-pentyl phthalate (DPP) | 131-18-0 | | 50mg/kg |
| 18 | Di-n-hexyl phthalate (DnHP) | 84-75-3 | | 50mg/kg |
| 19 | N-methyl-2-pyrrolidone; 1-methyl-2- pyrrolidone (NMP) | 872-50-4 | | 3 000 mg/kg |
| 20 | N,N-dimethylacetamide (DMAC) | 127-19-5 | 3 000 mg/kg | 50 mg/kg |
| 21 | N,N-dimethylformamide; dimethyl formamide(DMFa) | 68-12-2 | 3 000 mg/kg | 50 mg/kg |
| 22 | 1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1 | 2475-45-8 | 50 mg/kg | 15 mg/kg |

| | | | | |
|----|---|------------|--|-------------------|
| 23 | Benzenamine, 4,4'-(4-iminocyclohexa- 2,5-dienylidenemethylene)dianiline hydrochloride;C.I. Basic Red 9 | 569-61-9 | 50 mg/kg | 15mg/kg |
| 24 | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa - 2,5-dien-1-ylidene]dimethylammonium chloride; C.I. Basic Violet 3 with $\geq 0,1$ % of Michler's ketone (EC no. 202-027-5) | 548-62-9 | 50 mg/kg | 15mg/kg |
| 25 | 4-chloro-o-toluidinium chloride | 3165-93-3 | 30 mg/kg | 5mg/kg |
| 26 | 2-Naphthylammoniumacetate | 553-00-4 | | 5mg/kg |
| 27 | 4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate | 39156-41-7 | | 5mg/kg |
| 28 | 2,4,5-trimethylaniline hydrochloride | 21436-97-5 | | 5mg/kg |
| 29 | Quinoline | 91-22-5 | 50 mg/kg | 10mg/kg or 5mg/kg |
| 30 | Cadmium and its compounds | / | 1 mg/kg after extraction (expressed as Cd metal that can be extracted from the material) | 0.1mg/kg |
| 31 | Chromium VI compounds | / | 1 mg/kg after extraction (expressed as Cr VI that can be extracted from the material) | 0.1mg/kg |
| 32 | Arsenic compounds | / | 1 mg/kg after extraction (expressed as As metal that can be extracted from the material) | 0.1mg/kg |
| 33 | Lead and its compounds | / | 1 mg/kg after extraction (expressed as Pb metal that can be extracted from the material) | 0.1mg/kg |

Revision history:

| Revision Number | Description of Change | Approved Date | Effective Date |
|-----------------|------------------------------|----------------------|----------------------|
| 1.0 | Original Copy | | |
| 1.1 | Update of Phthalates | July 2022 | July 2022 |
| 1.2 | Update of DMFa Limits | December 2022 | December 2022 |
| | | | |

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